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CURRENT INDUSTRIAL REPORTS

U.S. Department of Commerce BUREAU OF THE CENSUS

BUREAU OF INDUSTRIAL ECONOMICS

Titanium Ingot, Mill Products, and Castings

DECEMBER 1979

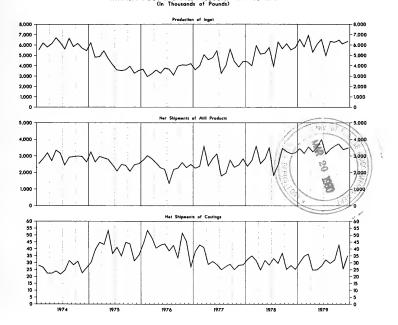
ITA-991(79)-12 formerly DIB-991 Issued February 1980

The statistics in this publication are based on a survey of manufactures and represent total U.S. shipments of titanium ingot, mill products, and castings. Estimates are included for

companies whose reports were not received in time for tabulation. A more complete description of this survey appears on page 4.

THIS REPORT INCLUDES DATA COMPARING DOMESTIC OUTPUT, EXPORTS, AND IMPORTS

TITANIUM INGOT AND MILL PRODUCTS: 1974 TO 1979



Address inquiries concerning these figures to the U.S. Department of Commerce, Industry and Trade Administration, Bureau of Industrial Economics, Materials Division, Washington, D.C. 20233, or call Stephen M. Pope, (301)

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		Ingot	Mill products	Castings	
Month and year	Production	Consumption	Ending stocks	net shipments ¹	shipments
1979					
December	6,973	6,314	3,642	3,844	34.8
November	5,958	6,112	4,107	3,447	26.5
October	6,477	6,870	4,685	r3,676	38.3
September	6,279	7,040	4,602	_3,538	32.0
August	6,359	5,452	4,444	r _{3,436}	29.8
July	5,032	4,688	4.334	3,149	32.3
June	6.579	5,856	4,401	4,029	27.8
May	6,095	5,449	4,367	3,573	25.1
April	5,345	5,577	4,197	3,266	24.9
March	6,983	6,349	4,368	3,571	36.5
February	5,858	5,447	3,947	3,170	34.9
January	6,582	6,767	4,039	3,464	30.3
1978					
December	5,784	5,532	4,310	3,207	25.5
November	5,546	5,717	3,886	3,160	28.3
October	6,141	6,740	4,654	3,279	25.5
September	5,660	5,305	5,122	3.474	37.4
August	6,336	4,956	5,452	2,603	29.9
July	4,004	3,903	3,685	1,866	33.4
June	5,792	5,360	4.186	3,534	28.6
May	5,224	4,985	4,111	2,847	32.0
April	5,138	5,272	4,266	2,560	25.2
Narch	5.985	5,443	4.079	3,623	31.9
February	4.024	4.585	3,480	2,743	35.2
January	4,388	4,530	3,973	2,401	26.5
1977					
December	4,441	4,276	3,795	2,847	28.7
November	3,897	4,081	3,863	2,473	28.4

 $^{{}^{}r}$ Revised by 5 percent or more from previously published figures.

Table 2. NET SHIPMENTS OF TITANIUM MILL PRODUCTS

(Thousands of pounds)

	(Indubana)	or pounds;				
Product	December 1979	November 1979	October 1979	September 1979	August 1979	December 1978
Tetal Sheet and strip.		3,447	r3,676	3,538 ^F 644	r3,436 r ₇₈₁	3,207 741
Plate. Forging and extrusion billet. Rod and bar. Fastener stock and wire.	1,648 461	1,459 428 194	r ₁ +326 642 182	r _{1,132} 918 238	r _{1,390} r _{1,66}	1,381 487 146
Extrusions (other than tubing)	429	457	578	606	r ₅₈₈	452

Revised by 5 percent or more from previously published figures.

¹See table 2 for more detailed data.

Table 3. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF TITANIUM MILL PRODUCTS: 1976 TO 1979

(Quantity in thousands of pounds; value in thousands of dollars)

	Manufac-	Expe	orts of dome erchandise ¹	stic 2	Percent exports to manufac-	Import consump		Calculated	Apparent	Percent imports to
Month and year	turers' net shipments ¹ (quantity)	Quantity	Value at port	Estimated producers' value ³	manufac- turers' net shipments (quantity)	Quantity	Value ⁵	import duty (value)	consump- tion ⁶ (quantity)	apparent consumption (quantity)
1979										_
December	3,844 3,447 3,676 3,538 3,436 3,149 4,029 3,573 3,266	(NA) 414 518 135 165 145 222 281 65	(NA) 3,308 4,201 1,598 1,829 2,092 2,269 2,693 873	(NA) 3,153 4,004 1,523 1,743 1,994 2,162 2,566 831	(NA) 12 14 4 5 5	(NA) 255 147 111 153 80 102 210	(NA) 1,538 754 687 701 799 673 1,087	(NA) 258 133 114 104 127 119 185	(NA) 3,258 3,305 3,514 3,424 3,084 3,909 3,502 3,430	(NA) 8 4 3 4 3
March	3,571 3,170 3,464	155 66 49	1,851 817 605	1,763 778 576	4 2 1	234 90 124	1,187 375 656	208 62 102	3,650 3,194 3,539	6 3 4
December	3,207 3,160 3,279 3,474 2,603 1,866	94 109 62 82 78 116	817 1,089 586 799 685 987	778 1,038 558 761 653 940	3 3 2 2 3 6	125 83 237 161 154 256	526 351 804 658 744 1,063	94 62 137 117 118 188	3,238 3,134 3,454 3,553 2,679 2,006	4 3 7 5 6
June	3,534 2,847 2,560 3,623 2,743 2,401	152 217 74 242 73 80	1,072 1,786 630 1,943 661 713	1,021 1,702 600 1,851 630 679	4 8 3 7 3 3	207 214 191 64 282 276	867 962 817 207 1,053 1,145	153 164 144 38 176 200	3,589 2,844 2,677 3,445 2,952 2,597	6 8 7 2 10 11
1978, total	35,129 30,932 28,995	1,379 1,368 1,604	11,768 11,821 12,970	11,213 11,263 12,358	4 4 6	2,250 708 647	9,197 2,958 2,939	1,591 483 510	36,000 30,272 28,038	6 2 2

(NA) Not available.

Revised.

Table 4. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES, EXPORT (SCHEDULE B) CODES, AND IMPORT (TSUSA) CODES

1979 SIC product code	S1C code description	1979 Export code (Schedule B)	Export code description	1979 Import code (TSUSA)	Import code description
33562 74 33562 79	Forging and extrusion billet Other (sheet, plate, tubing, bar, etc.)	630.6570	Wrought titanium metal, including alloys (excludes sponge, ingots billets, blooms, sheet bars, slabs, waste, and scrap)	629.2000	Wrought titanimum metal, including alloys (excludes waste and scrap and unwrought metal)

¹ See table 4 for comparison of Standard Industrial Classification (SIC) codes, Export (Schedule B) codes, and Import (TSUSA) codes.

^{*}Sec table 4 for comparison of Standard Industrial Classification (SIC Codes, Export (Schedule B) Codes, and Import (ISISA) codes. *
*Secure: Barreau of the Compass Report Fraid, U.S. Exports, Commodity by Country.

*These values were derived by use of adjustment factors to exclude freight, insurance, and other hanges incurred in moving goods to the port of export. This addustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1979 which are published in "Origin of Exports of Manufacturing Establishments," %P6(AS)-8, appendix A. Comparable adjustment factors for earlier years are based on sixilar factors developed for 1971 and 1972. The adjustment for fit his report is .953.

Source: Bureau of the Census Report IM 145-X, U.S. Imports for Consumption and General Imports.

Beginning with 1978, the dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

⁶Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in manufacturing titanium ingot and mill products, including castings.

Sampling Description—The statistics in this publication were collected on the Bureau of Industrial Economics Form ITA-991, Titanium Metal. The mailing panel for this survey includes all known titanium ingot, mill product, and castings producers.

Survey Error—Figures for the current month include estimates for respondents whose reports were not received in time for tabulation. Such missing figures are "imputed" from month-to-month movements shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Individual items with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements. The probable range of difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Seasonal Adjustment—The data are not adjusted for seasonal variation or number of working days.

EXPLANATION OF TERMS

Net Shipments—Derived by subtracting the sum of producers' receipts of each mill shape from the industry's gross shipments of that shape.

Gross Shipments—Include the quantities of mill shapes consumed in rolling mills in the production of fabricated products such as forgings, etc. Also include the quantities of mill shapes shipped between producers.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is considerable of the companies of the control of the

cation is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data:

a. Valuation—There are different methods of valuation for the three types of data.

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

- b. Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.
- c. Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$251 effective October 1969 and for shipments valued under \$100 prior to October 1969. This is believed to have only negligible effect on the statistics for most commodities.
- d. Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.
- e. Time Lag Between Output and Exports—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially

when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

- f. "Direct" vs "Total" Commodity Export and Imports— Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.
- g. Used Commodities—With a few exceptions, used or rebuilt commodities.are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

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